

SEQ	ID	NO:	1	IYQIVTDRFY	DGDESNNPSG	ELYSEGCKNL	RKYCGGDWQG	IIDKIDDGYL	51	100
SEQ	ID	NO:	2	IYQIVTDRFY	DGDESNNPSG	ELYSEDCKNL	RKYCGGDWQG	IIDKIDDGYL		
SEQ	ID	NO:	3	IYQIVTDRFA	DGDRTNNPAG	DAFGDRSNL	KLYFGGDWQG	IIDKINDGYL		
SEQ	ID	NO:	4	VYQIVTDRFV	DGNSANNPTG	AAFDSSDHNSL	KLYFGGDWQG	ITMKINDGYL		
SEQ	ID	NO:	5	IYQIVTDRFV	DGNTSNNPTG	DLYDPHTHSSL	KKYFGGDWQG	IINKINDGYL		
SEQ	ID	NO:	6	IYQIVTDRFL	DGNPSNNPTG	DLYDPHTHSSL	KKYFGGDWQG	IINKINDGYL		
SEQ	ID	NO:	7	IYQVFTDRFL	DGNPSNNPTG	AAYDATCSNL	KLYCGGDWQG	LINKINDNYF		
SEQ	ID	NO:	8	IYQVFTDRFL	DGNPSNNPTG	AAFDGTCNSL	KLYCGGDWQG	LVMKINDNYF		
SEQ	ID	NO:	9	IYQIFTDRFS	DGNPANNPTG	AAFDGSCTNL	RLYCGGDWQG	IINKINDGYL		
SEQ	ID	NO:	10	IYQIFTDRFS	DGNPANNPTG	AAFDGSCTNL	RLYCGGDWQG	IINKINDGYL		
SEQ	ID	NO:	11	IYQIFTDRFS	DGNPANNPTG	AAFDGTCNTL	RLYCGGDWQG	IINKINDGYL		
SEQ	ID	NO:	12	IYQIFTDRFS	DGNPANNPTG	PAFDGTCNTL	RLYCGGDWQG	IINKINDGYL		
SEQ	ID	NO:	13	IYQIVTDRFS	DGDPSNNPTG	AIYSQDCSDL	HKYCGGDWQG	IIDKINDGYL		
SEQ	ID	NO:	14	IYQIVTDRFS	DGNPGNNPSG	AIFSQNCIDL	HKYCGGDWQG	IIDKINDGYL		
SEQ	ID	NO:	15	VYQIVVDRFV	DGNTSNNPSG	ALFSSGCTNL	RKYCGGDWQG	IINKINDGYL		
SEQ	ID	NO:	16	IYFLFLDRFS	DGDPSNNAGF	NSATYDPNNL	KKYTGGDLRG	LINKL..PYL		

SEQ	ID	NO:	1	TNMGVTALWI	SPPVENIFET	IDDES..GTT	SYHGYWARDY	KKTNPFFGSL
SEQ	ID	NO:	2	TNMGVTALWI	SPPVENIFET	IDDEF..GTT	SYHGYWARDY	KKTNPFFGSL
SEQ	ID	NO:	3	TGGMGVTALWI	SQPVENITSV	IKYSGVNN.T	SYHGYWARDF	KQTNDAFGDF
SEQ	ID	NO:	4	TGGMGITALWI	SQPVENITAV	INYSGVNN.T	AYHGYWPRDF	KKTNAAFGSF
SEQ	ID	NO:	5	TGGMGVTAIWI	SQPVENIYAV	LPDSTFGGST	SYHGYWARDF	KRTNPYFGSF
SEQ	ID	NO:	6	TGGMGITAIWI	SQPVENIYAV	LPDSTFGGST	SYHGYWARDF	KKTNPFFGSL
SEQ	ID	NO:	7	SDLGVVTALWI	SQPVENIFAT	INYSGVTN.T	AYHGYWARDF	KKTNPYFGTM
SEQ	ID	NO:	8	SDLGVVTALWI	SQPVENIFAT	INYSGVTN.T	AYHGYWARDF	KKTNPYFGTM
SEQ	ID	NO:	9	TGGMGITAIWI	SQPVENIYSV	INYSGVNN.T	AYHGYWARDF	KKTNPAYGTM
SEQ	ID	NO:	10	TGGMGITAIWI	SQPVENIYSV	INYSGVHN.T	AYHGYWARDF	KKTNPAYGTM
SEQ	ID	NO:	11	TGGMGVTAIWI	SQPVENIYSI	INYSGVNN.T	AYHGYWARDF	KKTNPAYGTM
SEQ	ID	NO:	12	TGGMGVTAIWI	SQPVENIYSV	INYSGVNN.T	AYHGYWARDF	KKTNPAYGTM
SEQ	ID	NO:	13	TDLGITAIWI	SQPVENVYAL	..HPS..GTT	SYHGYWARDY	KRTNPFYGDF
SEQ	ID	NO:	14	TDLGITALWI	SQPVENVYAL	..HPS..GTT	SYHGYWARDY	KKTNPYGGNF
SEQ	ID	NO:	15	TDMGVVTALWI	SQPVENVFSV	MNDAS..GSA	SYHGYWARDF	KKPNPFFGTL
SEQ	ID	NO:	16	KSLGVTSIWI	TPPIDNV...	NNNTDAAGNT	GYHGYWGRDY	FRIDEHFGNL

151	200
SEQ ID NO: 1 EDFERLIETA HSH..DIKIV IDLAPNHTSP ADFDNPNYAE NGILYDNGNY	
SEQ ID NO: 2 EDFERLIETA HSH..DIKIV IDLAPNHTSP ADFDNPDYAE NGVLYDDGNY	
SEQ ID NO: 3 ADFQNLIDTA HAH..NIKVV IDFAPNHTSP ADRDNPFGFAE NGGMYDNGSL	
SEQ ID NO: 4 TDFSNLIAAA HSH..NIKVV MDFAPNHTNP ASSTDPSFAE NGALYNNGTL	
SEQ ID NO: 5 TDFQNLINTA HAH..NIKVI IDFAPNHTSP ASETDPTYAE NGRLYDNGTL	
SEQ ID NO: 6 TDFQNLIATA HAH..NIKVI IDFAPNHTSP ASETDPTYGE NGRLYDNGVL	
SEQ ID NO: 7 ADFQNLITTA HAK..GIKIV IDFAPNHTSP AMETDTSFAE NGRLYDNGTL	
SEQ ID NO: 8 TDFQNLVTTA HAK..GIKII IDFAPNHTSP AMETDTSFAE NGKLYDNGNL	
SEQ ID NO: 9 QDFKNLIDTA HAH..NIKVI IDFAPNHTSP ASSDDPSFAE NGRLYDNGNL	
SEQ ID NO: 10 QDFKNLIDTA HAH..NIKVI IDFAPNHTSP ASSDDPSFAE NGRLYDNGNL	
SEQ ID NO: 11 ADFQNLIAAA HAK..NIKVI IDFAPNHTSP ASSDQPSFAE NGRLYDNGTL	
SEQ ID NO: 12 ADFQNLIAAA HAK..NIKVI IDFAPNHTSP ASLDQPSFAE NGKLYNNGRD	
SEQ ID NO: 13 SDFDRLMDTA HSN..GIKVI MDFTPNTHSSP ALETDPSYAE NGAVYNDGVL	
SEQ ID NO: 14 DDFDRLMSTA HSN..GIKVI MDFTPNTHSSP ALETPNPYVE NGAIYDNGAL	
SEQ ID NO: 15 SDFQRLVDAA HAK..GIKVI IDFAPNHTSP ASETNPSYME NGRLYDNGTL	
SEQ ID NO: 16 DDFKELTSLM HSPDYNMKLV LDYAPNHSNA NDEN.....E FGALYRDGVF	

201	250
SEQ ID NO: 1 VSSYSDDNS... .DLFLYNGG .TDFSTYEDE IYRNLFDLAS FNHINAELNN	
SEQ ID NO: 2 LGSYSDDS... .DLFLYNGG .TDFSNYEDE IYRNLFDLAS FNHINSELNN	
SEQ ID NO: 3 LGAYSNDTA... .GLFHHNGG .TDFSTIEDG IYKNLYDLAD INHNNNNAMDA	
SEQ ID NO: 4 LGKYSNDTA... .GLFHHNGG .TDFSTTESG IYKNLYDLAD INQNNNTIDS	
SEQ ID NO: 5 LGGYTNDTN... .GYFHHYGG .TDFSSYEDG IYRNLFDLAS LNQQNSTIDS	
SEQ ID NO: 6 LGGYTNDTN... .GYFHHYGG .TNFSSYEDG IYRNLFDLAS LDQQNSTIDS	
SEQ ID NO: 7 VGGYTNDTN... .GYFHHNGG .SDFSSLENG IYKNLYDLAD FNHNNATIDK	
SEQ ID NO: 8 VGGYTNDTN... .GYFHHNGG .SDFSTLENG IYKNLYDLAD LNHNNSTIDT	
SEQ ID NO: 9 LGGYTNDTQ... .NLFHHYGG .TDFSTIENG IYKNLYDLAD LNHNNSSVDV	
SEQ ID NO: 10 LGGYTNDTQ... .NLFHHYGG .TDFSTIENG IYKNLYDLAD LNHNNSSVDV	
SEQ ID NO: 11 LGGYTNDTQ... .NLFHHNGG .TDFSTTENG IYKNLYDLAD LNHNNSTVDV	
SEQ ID NO: 12 EGGYTNDTH... .NLFHHNGG .TDFSTTENG IYKNLYDLAD LNHNNSTVDT	
SEQ ID NO: 13 IGNYSNDPN... .NLFHHNGG .TDFSSYEDS IYRNLFDLAS YDLNNNTVMDQ	
SEQ ID NO: 14 LGNYSNDQQ... .NLFHHNGG .TDFSSYEDS IYRNLFDLAS YDLNNNTVMDQ	
SEQ ID NO: 15 LGGYTNDAN... .MYFHHNGG .TTFSSLEDG IYRNLFDLAS LNHQNPVIDR	
SEQ ID NO: 16 ITDYPTNVAA NTGWYHHNGG VTNWNDFQV KNHNLFNLSD LNQSNTDVYQ	

251	300
SEQ ID NO: 1 YLEDAVKKWL DLGIDGIRID AVAHMPPGWQ KAYMDTIY.D HRAV.....F	
SEQ ID NO: 2 YLEDAVKKWL DLGIDGIRID AVAHMPPGWQ KAYMDTIY.D HRAV.....F	
SEQ ID NO: 3 YFKSAIDLWL GMGVGDGIRFD AVKHMPFGWQ KSFVSSIYGG DHPV.....F	
SEQ ID NO: 4 YLKESIQLWL NLGVGDGIRFD AVKHMPQGWQ KSYVSSIYSS ANPV.....F	
SEQ ID NO: 5 YLKSAIKVWL DMGIDGIRLD AVKHMPFGWQ KNFMD SIL.S YRPV.....F	
SEQ ID NO: 6 YLKAAIKLWL DMGIDGIRMD AVKHMAFGWQ KNFMD SIL.S YRPV.....F	
SEQ ID NO: 7 YFKDAIKLWL DMGVGDGIRVD AVKHMPFGWQ KSWMSSIY.A HKPV.....F	
SEQ ID NO: 8 YFKDAIKLWL DMGVGDGIRVD AVKHMPQGWQ KNWMSIY.A HKPV.....F	
SEQ ID NO: 9 YLKDAIKMWL DLGVGDGIRVD AVKHMPFGWQ KSFMATIN.N YKPV.....F	
SEQ ID NO: 10 YLKDAIKMWL DLGVGDGIRVD AVKHMPFGWQ KSFSTIN.N YKPV.....F	
SEQ ID NO: 11 YLKDAIKMWL DLGIDGIRMD AVKHMPFGWQ KSFMAAVN.N YKPV.....F	
SEQ ID NO: 12 YLKDAIKMWL DLGIDGIRMD AVKHMPFGWQ KSFMATVN.N YKPV.....F	
SEQ ID NO: 13 YLKESIQLWL DKGIDGIRVD AVKHMSGWQ TSLMSDIY.A HEPV.....F	
SEQ ID NO: 14 YLKESIKFWL DKGIDGIRVD AVKHMSGWQ TSLMSEIY.S HKPV.....F	
SEQ ID NO: 15 YLKDAVKMWI DMGIDGIRMD AVKHMPFGWQ KSLMDEID.N YRPV.....F	
SEQ ID NO: 16 YLLDGSKFWI DAGVDAIRID AIKHMDKSFI QKWTSDIYDY SKSIGREGFF	

301

SEQ ID NO: 1 TFGEWFTGPy G.NEDY TKFANNSGMS VLDFRFAQTT RNVIGNNNGT
 SEQ ID NO: 2 TFGEWFTGPS G.NEDY TKFANNSGMS VLDFRFAQTT RNVIGNNNGT
 SEQ ID NO: 3 TFGEWYLGAD QTDGDN IKFANESGMN LLDFEYAQEV REVFRDKTET
 SEQ ID NO: 4 TFGEWFLGPD EMTQDN INFANQSGMH LLDFAFAQEJ REVFRDKSET
 SEQ ID NO: 5 TFGEWFLGTM EIDVNN TYFANESGMMS LLDFRFSQKV RQVFRDNTDT
 SEQ ID NO: 6 TFGEWYLGTN EVDPNN TYFANESGMMS LLDFRFAQKV RQVFRDNTDT
 SEQ ID NO: 7 TFGEWFLGSA ASDADN TDFANKSGMS LLDFRFNSAV RNVFRDNTSN
 SEQ ID NO: 8 TFGEWFLGSA APDAADN TDFANESGMMS LLDFRFNSAV RNVFRDNTSN
 SEQ ID NO: 9 TFGEWFLGVN EISPEY HQFANESGMMS LLDFRFAQKA RQVFRDNTDN
 SEQ ID NO: 10 NFGEWFLGVN EISPEY HQFANESGMMS LLDFFPFAQKA RQVFRDNTDN
 SEQ ID NO: 11 TFGEWFLGVN EVSPEN HKFANESGMMS LLDFRFAQKV RQVFRDNTDN
 SEQ ID NO: 12 TFGEWFLGVN EVSAEN HKFANVSGMS LLDFRFAQKV RQVFKDNTDN
 SEQ ID NO: 13 TFGEWFLGSG EVDPQN HHFANESGMMS LLDFOFGQTI RDVLMGDSSN
 SEQ ID NO: 14 TFGEWFLGSG EVDPQN HHFANESGMMS LLDFOFGQTI RNVLKDRTSN
 SEQ ID NO: 15 TFGEWFLSEN EVDANN HYFANESGMMS LLDFRFGQKL RQVLRNNSDN
 SEQ ID NO: 16 FFGEWFGASA NTTTGVGDNA IDYANTSGSA LLDGFGRDTL ERVLVGRSGN

351

SEQ ID NO: 1 .MYDIEKMLT DTENDYDRPQ DQVTFIDNHD MSRFTNDGES T
 SEQ ID NO: 2 .MYDIEKMLT DTENDYDRPQ DQVTFIDNHD MSRFTNGGES T
 SEQ ID NO: 3 .MKDLYEVLA STESQYDYIN NMVTFIDNHD MDRFQVAGSG T
 SEQ ID NO: 4 .MTDLNSVIS STGSSYNYIN NMVTFIDNHD MDRFQQAGAS T
 SEQ ID NO: 5 .MYGLDSMIQ STASDYNFIN DMVTFIDNHD MDRFYNG.GS T
 SEQ ID NO: 6 .MYGLDSMIQ STAADYNFIN DMVTFIDNHD MDRFYTG.GS T
 SEQ ID NO: 7 .MYALDSMIN STATDYNQVN DQVTFIDNHD MDRFKTSAVN N
 SEQ ID NO: 8 .MYALDSMLT ATAADYNQVN DQVTFIDNHD MDRFKTSAVN N
 SEQ ID NO: 9 .MYGLKAMLE GSEVDYAQVN DQVTFIDNHD MERFHTSNGD R
 SEQ ID NO: 10 .MYGLKAMLE GSEVDYAQVN DQVTFIDNHD MERFHTSNGD R
 SEQ ID NO: 11 .MYGLKAMLE GSAADYAQVD DQVTFIDNHD MERFHASNAN R
 SEQ ID NO: 12 .MYGLKSMLE GSATDYAQME DQVTFIDNHD MERFHNNNSAN R
 SEQ ID NO: 13 .WYDFNEMIA STEEDYDEVI DQVTFIDNHD MSRFSFEQSS N
 SEQ ID NO: 14 .WYDFNEMIT STEKEYNEVI DQVTFIDNHD MSRFSVGSSS N
 SEQ ID NO: 15 .WYGFNQMIQ DTASAYDEVI DQVTFIDNHD MDRFMIDGGD P
 SEQ ID NO: 16 TMKTLNSYLI KRQTVFTSDD WQVVFMNDNHD MARIGTALRS NATTFPGPGNN

401

SEQ ID NO: 1 RTTDIGLA LMLTSRGVPT IYYGTEQYME G
 SEQ ID NO: 2 RTTDIGLA LMLTSRGVPT IYYGTEQYMK G
 SEQ ID NO: 3 RATEQALA LTLTSRGVPA IYYGTEQYMT G
 SEQ ID NO: 4 RPTEQALA VTLTSRGVPA IYYGTEQYMT G
 SEQ ID NO: 5 RPVEQALA FTLTSRGVPA IYYGTEQYMT G
 SEQ ID NO: 6 RPVEQALA FTLTSRGVPA IYYGTEQYMT G
 SEQ ID NO: 7 RRLEQALA FTLTSRGVPA IYYGTEQYLT G
 SEQ ID NO: 8 RRLEQALA FTLTSRGVPA IYYGTEQYLT G
 SEQ ID NO: 9 RKLEQALA FTLTSRGVPA IYYGSEQYMS G
 SEQ ID NO: 10 RKLEQALA FTLTSRGVPA IYYGSEQYMS G
 SEQ ID NO: 11 RKLEQALA FTLTSRGVPA IYYGTEQYMS G
 SEQ ID NO: 12 RKLEQALA FTLTSRGVPA IYYGTEQYMS G
 SEQ ID NO: 13 RHTDIALA VLLTSRGVPT IYYGTEQYLT G
 SEQ ID NO: 14 RQTDMALA VLLTSRGVPT IYYGTEQYVT G
 SEQ ID NO: 15 RKVDMALA VLLTSRGVPN IYYGTEQYMT G
 SEQ ID NO: 16 ETGGSQSEAF AQKRIDLGLV ATMTVRGIPA IYYGTEHYAA NFTNSNSFGQV

450

350

451

SEQ ID NO: 1 DGDPGSRGMM ESFGENTDAY KLIQKLAPLR KSNPAYGYGT TKERWINDDV
 SEQ ID NO: 2 DGDPGSRGMM ASFDENTDAY KLIQKLAPLR KSNPAYGYGT TTERWINDDV
 SEQ ID NO: 3 DGDPPNRRAMM TSFNTGTTAY KVIQALAPLR KSNPAIAYGT TTERWVNNDV
 SEQ ID NO: 4 NGDPNNGRMM TGFDTNKTAY KVIKALAPLR KSNPALAYGS TTQRWVNNDV
 SEQ ID NO: 5 NGDPYNRAMM TSFNTSTTAY NVIKKLAPLR KSNPAIAYGT TQQRWINNDV
 SEQ ID NO: 6 NGDPYNRAMM TSFDTTTAY NVIKKLAPLR KSNPAIAYGT QKQRWINNDV
 SEQ ID NO: 7 NGDPDNRAKM PSFSKSTTAF NVISKLAPLR KSNPAIAYGS TQQRWINNDV
 SEQ ID NO: 8 NGDPDNRGKM PSFSKSTTAF NVISKLAPLR KSNPAIAYGS TQQRWINNDV
 SEQ ID NO: 9 GNDPDNRARL PSFSTTTAY QVIQKLAPLR KSNPAIAYGS THERWINNDV
 SEQ ID NO: 10 GNDPDNRARI PSFSTTTAY QVIQKLAPLR KSNPAIAYGS TQERWINNDV
 SEQ ID NO: 11 GTDPDNRARI PSFSTSTTAY QVIQKLAPLR KCNPAIAYGS TQERWINNDV
 SEQ ID NO: 12 GNDPDNRARI PSFSTTTAY QVSKKLAPLR KSNPAIAYGT TQERWINNDV
 SEQ ID NO: 13 GNDPENRKPM SDFDRTTNSY QIISTLASLR QNNPALGYGN TSERWINSDV
 SEQ ID NO: 14 GNDPENRKPL KTFDRSTNSY QIISKLASLR QTNSALGYGT TTERWLNEDEI
 SEQ ID NO: 15 NGDPNMRKMM SSFNKNTRAY QVIQKLSSLR RNNPALAYGD TEQRWINGDV
 SEQ ID NO: 16 GSDPYNRREKM PGFDTESEAF SIIKTLGDLR KSSPAIQNGT YTELWVNDDI

500

501
 SEQ ID NO: 1 IIYERNFGDN YALIAINRNL NTSYNIQGLQ TEMPSNSYDD VLDGLLDGQS
 SEQ ID NO: 2 LIYERHFGEN YALIAINRSL NTSYNIQGLQ TEMPSNSYDD VLDGLLDGQS
 SEQ ID NO: 3 LIIERKFGSS AALVAINRNS SAAYPISGLL SSLPAGTYSD VLNGLLNGNS
 SEQ ID NO: 4 YVYERKFGSN VALVAVNRS TTAYPISGAL TALPNTGTYTD VLGGLLNGNS
 SEQ ID NO: 5 YIYERKFGNN VALVAINRNL STSYNITGLY TALPAGTYTD VLGGLLNGNS
 SEQ ID NO: 6 YIYERQFGNN VALVAINRNL STSYYTGLY TALPAGTYSD MLGGLLNGSS
 SEQ ID NO: 7 YVYERKFGKS VAVVAVNRLN STSASITGLS TSLPTGSYTD VLGGVLNNGNN
 SEQ ID NO: 8 YIYERKFGKS VAVVAVNRLN TTPTSITNLN TSLPSGTYTD VLGGVLNNGNN
 SEQ ID NO: 9 IIYERKFGNN VAVVAVINRNM NTPASITGLV TSLRRASYND VLGGILNGNT
 SEQ ID NO: 10 IIYERKFGNN VAVVAVINRNM NTPASITGLV TSLPQGSYND VLGGILNGNT
 SEQ ID NO: 11 LIYERKFGSN VAVVAVNRLN NAPASISGLV TSLPQGSYND VLGGILNGNT
 SEQ ID NO: 12 LIYERKFGNN VAVIAVNRNV NTSASITGLV TSLPAGSYTD VLGGLLNGNN
 SEQ ID NO: 13 YIYERSFGDS VVLTAVN.SG DTSYTIINNLN TSLPQGQYTD ELQQLLDGNE
 SEQ ID NO: 14 YIYERTFGNS IVLTAVN.SS NSNQITINLN TSLPQGNYTD ELQQLLDGNT
 SEQ ID NO: 15 YVYERQFGKD VVVLVAVNRS SSNYSITGLF TALPAGTYTD QLGGLLDGNT
 SEQ ID NO: 16 LVFERRSGND IVIVALNRGE ANTINVKNIA VP.....NG VYPSLIGNNS

550

551
 SEQ ID NO: 1 IVVDNNGEVN EFQMSPGEVG VWEFEATNVD KPSIGQVGPI IGEAGRTVTI
 SEQ ID NO: 2 IVVDNKGGVN EFQMSPGEVS VWEFEAEVND KPSIGQVGPI IGEAGRTVTI
 SEQ ID NO: 3 ITVGGGGAVT NFTLAAGGT A VVQYTAPE.T SPAIGNVGPT MGQPGNIVTI
 SEQ ID NO: 4 ITVN.GGTVS NFTLAAGGT A VVQYTTB.S SPIIGNVGPT MGKPGNTITI
 SEQ ID NO: 5 ISVASDGSVT PFTLSAGEVA VVQYVSS.N SPLIGHVGPT MTKAGQTITI
 SEQ ID NO: 6 ITVSSNGSVT PFTLAPGEVA VVQYVSTT.N PPLIGHVGPT MTKAGQTITI
 SEQ ID NO: 7 IT.STNGSIN NFTLAAGATA VVQYTTAE.T TPTIGHVGPV MGKPGNVVTI
 SEQ ID NO: 8 IT.SSGGNIS SFTLAAGATA VVQYTAZE.T TPTIGHVGPV MGKPGNVVTI
 SEQ ID NO: 9 LTVGAGGAAS NFTLAAPGGTA VVQYTTDA.T TPIIGNVGPM MAKPGVTITI
 SEQ ID NO: 10 LTVGAGGAAS NFTLAAPGGTA VVQYTTDA.T APINGNVGPM MAKAGVTITI
 SEQ ID NO: 11 LSVGSGGAAS NFTLAAGGT A VVQYTAAT.A TPTIGHVGPM MAKPGVTITI
 SEQ ID NO: 12 LTVGSGGSAS IFTLAAGGT A VVQYTTAV.T APTIGHVGPM MAKPGAAVTI
 SEQ ID NO: 13 ITVNSNGAVD SFQLSANGVS VVQITEEH.A SPLIGHVGPM MGKHGNVTI
 SEQ ID NO: 14 ITVNANGAVN SFQLRANSVA VVQVSNPS.T SPLIGQVGPM MGKAGNTITV
 SEQ ID NO: 15 IQVGSNGSVN AFDLGPGEVG VWAYSAE.T TPIIGHVGPM MGQVGHQVTI
 SEQ ID NO: 16 VSVANK..RT TLTLQMNEAV VIRSQSDDAE NPTVQ.....

600

601	650
SEQ ID NO: 1 SGEFGFSSPG TVQFGSTS.. AEIVSWNDT VIIITVPNNE AGYHDITVVT	
SEQ ID NO: 2 SGEFGFSSQG TVHFGSTS.. AEILSWNDT IITLTVPNNE AGYHDITVVT	
SEQ ID NO: 3 DGRGFGGTAG TVYFGTTAVT GSGIVSWEDT QIKAVIPKVA AGKTGVSVKT	
SEQ ID NO: 4 DGRGFGTTKN KVTFGTTAVT GANIVSWEDT EIKVKVPNVA AGNTAVTVTN	
SEQ ID NO: 5 DGRGFGTTSG QVLFGSTAGT ... IVSWDDT EVKVKVPSVT PGKYNISLKT	
SEQ ID NO: 6 DGRGFGTTAG QVLFGTTPAT ... IVSWEDT EVKVKVPAALT PGKYNITLKT	
SEQ ID NO: 7 DGRGFGSTKG TVYFGTTAVT GAAITSWEDT QIKVTIPSVVA AGNYAVKVA.	
SEQ ID NO: 8 DGRGFGSAKG TVYFGTTAVT GSAITSWEDT QIKVTIPPVA GGDYAVKVA.	
SEQ ID NO: 9 DGRGFGSGKG TVYFGTTAVT GADIVAWEDT QIQVKIPAVP GGIYDIRVAN	
SEQ ID NO: 10 DGRA.SARQG TVYFGTTAVT GADIVAWEDT QIQVKILRVP GGIYDIRVAN	
SEQ ID NO: 11 DGRGFGSSKG TVYFGTTAVS GADITSWEDT QIKVKIPAVVA GGNYNIKVAN	
SEQ ID NO: 12 DGRGFGATKG TVYFGTTAVT GANITAWEDT QIKVKIPAVVA GGVYNIKIAN	
SEQ ID NO: 13 TGEFGFDNEG SVLFDSDF.. SDVLSWSDT KIEVSVPDVT AGHYDISVNN	
SEQ ID NO: 14 SGEFGDERR SVLFDSTS.. SEIISWSNT KISVKVPNVA GGYYDLSVVT	
SEQ ID NO: 15 DGEFGFTNTG TVKFGTTA.. ANVWSWSNN QIVVAVPNVS PGKYNITVQS	
SEQ ID NO: 16	
651	700
SEQ ID NO: 1 EDEQVSNAYE .FEVLTADQV TVRFIIDNAE TKMGENIFLV GNVHELGW.	
SEQ ID NO: 2 EDEQVSNAYE .FEVLTADQV TVRFIIDNAE TKLGENVFLV GNVHELGW.	
SEQ ID NO: 3 SSGTASNTFK SFNVLTDQV TVRFVNNQAN TNYGTNVYLV GNAELGSW.	
SEQ ID NO: 4 AAGTTSAAFN NFNVLTADQV TVRFVNNAT TALGQNVYLT GNVAEGLGNW.	
SEQ ID NO: 5 SSGATSNTRYN NINILTGQNI CVRFVNNNAS TVYGENVYLT GNVAEGLGNW.	
SEQ ID NO: 6 ASGVTNSNSYN NINVLTGQV CVRFVNNAT TVWGENVYLT GNVAEGLGNW.	
SEQ ID NO: 7 ASGVTNSNAYN NFTILTDQV TVRFVNNAS TTLGQNVYLT GNVAEGLGNWS	
SEQ ID NO: 8 ANGVTNSNAYN DFTILSGDQV SVRFVNNAT TALGENIYLT GNVSELGNWT	
SEQ ID NO: 9 AAGAASNIYD NFEVLTGQV TVRFVNNAT TALGQNVFLT GNVSELGNW.	
SEQ ID NO: 10 AAGAASNIYD NFEVLTGQV TVRFVNNAT TALGQNVFLT GNVSELGNW.	
SEQ ID NO: 11 AAGTASNVYD NFEVLSGDQV SVRFVNNAT TALGQNVYLT GSVSELGNW.	
SEQ ID NO: 12 SAGTSSNVHD NFEVLSGDQV SVRFVNNAT TALGQNVYLA GSVSELGNW.	
SEQ ID NO: 13 AGDSQSPTYD KFEVLTGQV SIRFAVNNAT TSLGTNLYMV GNVNELGW.	
SEQ ID NO: 14 AANIKSPTYK EFEVLSGNQV SVRFVNNAT TSPGTNLYIV GNVNELGW.	
SEQ ID NO: 15 SSGQTSAAYD NFEVLTNDQV SVRFVNNAT TNLGQNIYIV GNVYELGNW.	
SEQ ID NO: 16	SINFTCNNGY TISGQSVYII GNIPQLGGW.
701	750
SEQ ID NO: 1 DPEQSVGRFF NQVVYQYPTW YYDVNPANT DLEFKFIKID Q...DNNVTW	
SEQ ID NO: 2 DPEQSVGRFF NQIVYQYPTW YYDVNPANT DLEFKFIKID Q...DNNVIW	
SEQ ID NO: 3 DPNKAIGPMY NQVIAKYPW YYDVSVPAGT KLDKFIKKG G...GT.VTW	
SEQ ID NO: 4 TAANAIGPMY NQVEASYPTW YFDVSVPANT ALQFKFIKVN G...ST.VTW	
SEQ ID NO: 5 DTSKAIGPMF NQVVYQYPTW YYDVSVPAGT TIQFKFIKKN G...NT.ITW	
SEQ ID NO: 6 DTSKAIGPMF NQVVYQYPTW YYDVSVPAGT TIEFKFIKKN G...ST.VTW	
SEQ ID NO: 7 TGSTAIGPAF NQVIHQYPTW YYDVSVPAGK QLEFKFFFKKN G...ST.ITW	
SEQ ID NO: 8 TGAASIGPAF NQVIHAYPTW YYDVSVPAGK QLEFKFFFKKN G...AT.ITW	
SEQ ID NO: 9 DPNNNAIGPMY NQVVYQYPTW YYDVSVPAGQ TIEFKFLKKQ G...ST.VTW	
SEQ ID NO: 10 DPNNNAIGPMY NQVVYQYPTW YYDVSVPAGQ TIEFKFLKKQ G...ST.VTW	
SEQ ID NO: 11 DPAKAIGPMY NQVVYQYPNW YYDVSVPAGK TIEFKFLKKQ G...ST.VTW	
SEQ ID NO: 12 DPAKAIGPLY NQVIYQYPTW YYDVTVPAGK TIEFKFLKKQ G...ST.VTW	
SEQ ID NO: 13 DPQQAIGPMF NQVMYQYPTW YYDISVPAEE NLEYKFIKKD S...SGNWW	
SEQ ID NO: 14 DADKAIGPMF NQVMYQYPTW YYDISVPAEGK NLEYKYIKKD Q...NGNWW	
SEQ ID NO: 15 DTSKAIGPMF NQVVYSYPTW YIDVSVPAGK TIEFKFIKKD S...QGNVTW	
SEQ ID NO: 16DLTKAV KISPTQYPQW SASLELPSDL NVEWKCVKRN ETNPTANVEW	

Fig. 1 continued

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	751	774
SEQ ID NO: 1	QSGANHTYSS	PESGTGIIRV DW..
SEQ ID NO: 2	QSGANQTYSS	PESGTGIIRV DW..
SEQ ID NO: 3	EGGNHHTYTT	PASGVGTVTV DWQN
SEQ ID NO: 4	EGGNHHTFTS	PSSGVATVTV DWQN
SEQ ID NO: 5	EGGSNHTYTV	PSSSTGTVIV NWQQ
SEQ ID NO: 6	EGGYNHVYTT	PTSGTATVIV DWQP
SEQ ID NO: 7	ESGSNHTFTT	PASGTATVTV NWQ.
SEQ ID NO: 8	EGGSNHTFTT	PTSGTATVTI NWQ.
SEQ ID NO: 9	EGGANRTFTT	PTSGTATVNV NWQP
SEQ ID NO: 10	EGGANRTFTT	PTSGTATVNV NWQP
SEQ ID NO: 11	EGGSNHTFTA	PSSGTATINV NWQP
SEQ ID NO: 12	EGGSNHTFTA	PTSGTATINV NWQP
SEQ ID NO: 13	ESGNHHTYTT	PATGTDtvLV DWQ.
SEQ ID NO: 14	QSGNNRTYTS	PTTGTDTVMI NW..
SEQ ID NO: 15	ESGSNHVYTT	PTNTTGKIV DWQN
SEQ ID NO: 16	QSGANNQFNS	NDTQTTNGSF

Fig. 1 continued

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1 10 20 30 40 50 60 70
 -----SSSASVKGDVIVYQIIIDRFYDGDTTNNNPAKSYGLYDPTKSKWKMWGGDLEGVRQKL--PYLK
 ASDTAVSNVVNVYSTDVIYQIVTDRFVDGNTSNNPT---GDLYDPTHTSLKKYFGGDWQGIINKINDGYLT 67
 #
 QLGVTTIWLSPVLDNLDTLAGT---DNTGYHGYWTRDPKQIEEHFGNWTTFDLTVNDAHQNGIKVIVDF
 GMGVTAIWISQPVENIYAVLPDSTFGGSTSYHGYWARDFKRTNPYFGSFTDFQNLINTAHAHNIKVIIDF 137

 ##### # #

 VPHNHTPFKANDSTFAEGGALYNNGTYMGNYFDDATKGYFHHNGDISNWDDRYEAQWKNFTDPAGFSLAD
 APNHTSPASETDPTYAENGRLYDNGTLLGGYTNDT-NGYFHHYGGTD-FSSYEDGIYRNLF-----DLAD 200
 ##### # # # #####
 ***** *** ***
 LSQENGTTIAQYLTDAAVQLVAHGADGLRIDAVKHFNSGFSKSLADKLYQKKDIFLVGEWYGDD-PGTANH
 LNQQNSTITSYLKSAIKVWLDMGIDGIRLDAVKHMPFGWQKNFMDISILSYRPVFTGEWFLG-TNEI--D 267

 # #
 LEKVRVANNSGVNVLDFDLNTVIRNVFGTFTQTMYDLNNMVNQTGNEYKYKENLITFIDNHDMRFLSVN
 VNNTYFANESGMSLLDFRFSQKVRQVFRDNTDTMYGLDSMIQSTASDYNFINDMVTFIDNHDMDRFYN-G 336

 SNKANLHQALAFILTSRGTPSIYYGTEQYMAGGNDPYNRGMMPAFDTTTAFKEVSTLAGLRRNNAIQY
 GSTRPVEQALAFTLTSRGVPentaiyyGTEQYMTGNGDPYNRAMMTSFNTSTAYNVIKKLAPRKSNPAY 406

 GTTQRWINNDVYIYERKFFNDVVLVAINRNTQSSYSISGLQTLPNGSYADYLSGLGGNGISVS-NGS
 GTTQRWINNDVYIYERKFGNNVALVAINRNLSTSNTGLEYTALPAGTYTDVLGGLLNGNSISVASDGS 476
 VASFTLAPGAVSVWQYST-SASAPQIGSVAPNMGIPGNVVTIDKGKFGTTQGTVTFGVTATVKSWTNSR
 VTPFTLSAGEVAVWQYVSSN-SPLIGHVGPTMTKAGQTITIDGRGFGTSGQVLFGSTAGTIVSWDDTE 545
 IEVYVPNMAAGLTDVKVTA-GGVSSNLYS-YNILSGTQTSVVFVKSAPPTNLGDKIYLTGNIPELGNWS
 VKVKVPSVTPGKYNISLKTSSGATNTNNINILTGNQICVRFVNNASTVY-GENVYLTGNVAELGNWD 614
 TDTSGAVNNAQGPLLAP---NYPDWFYVFSVPAGKTIQFKFFIKRADGT-IQWENGSNHVATTPGATGN
 TS-----KAIGPMFNQVYQYPTWYDVSVPAGTTIQFKFIKKN--GNTITWEGGSNHTYTVPSSSTGT 676
 ITVTWQN
 VIVNWQQ 683

Figure 2